

**RESEARCH CALL TO DOE NATIONAL LABORATORIES
Nanoscale Science Research Centers**



**TECHNICAL ADMINISTRATIVE SUPPORT TO THE
NATIONAL CENTER FOR SOLID-STATE LIGHTING RESEARCH AND
DEVELOPMENT:
CORE SSL RESEARCH IN NANOTECHNOLOGY**

CONTACT: Joel Chaddock, Project Manager
TELEPHONE NUMBER: (304) 285-0958
FAX NUMBER: (304) 285-4403
E-MAIL: jchadd@netl.doe.gov

ISSUING OFFICE: U.S. DEPARTMENT OF ENERGY
National Energy Technology Laboratory
3610 Collins Ferry Road, P. O. Box 880
Morgantown, WV 26507-0880

ISSUE DATE: June 16, 2006
DUE DATE: July 14, 2006

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SECTION I – GENERAL INFORMATION

1.0 SUMMARY

The Department of Energy (DOE) National Energy Technology Laboratory (NETL), on behalf of the Office of Energy Efficiency and Renewable Energy's (EERE) Building Technologies Program (BT), is seeking proposals for the National Center for Solid-State Lighting Research and Development related to Core¹ research in the Solid-State Lighting (SSL) Program. The objective of this Laboratory Call is to select an entity to provide technical administrative support to resultant selections of the partner Laboratory Call titled, "National Center for Solid-State Lighting Research and Development: Core SSL Research in Nanotechnology." The Laboratory Call, in its entirety, can be found at <http://www.netl.doe.gov/ssl/PDFs/Nanocore2006.pdf>. It is not the intent of this Laboratory Call to duplicate efforts already provided to the Building Technologies Program through the US Department of Energy, the National Energy Technology Laboratory or contractors/researchers in support of their mission, but rather to act as a technical interlink between the Office of Science Nanoscale Science Research Centers activities and the EERE Solid-State Lighting Program.

1.1 BACKGROUND

The Nanotechnology Laboratory Call was initiated by the Energy and Water (E&W) Conference Committee November 8, 2005:

Within the \$20,000,000 provided for lighting R&D, \$5,000,000 is to support a National Center for solid state lighting research and development through the Office of Science, to be competed among the centers for nanotechnologies.

In conjunction with the "National Center for Solid-State Lighting Research and Development" Laboratory Call, a separate technical call will be issued for the "National Center for Solid-State Lighting Research and Development: Core SSL Research in Nanotechnology." The objective of the technical research call is to conduct research in the emerging field of nanotechnology that could augment Solid-State Lighting Core technologies. The Laboratory Call for the National Center will address technical coordination and administrative support activities to those technical research activities selected through the "National Center for Solid-State Lighting Research and Development: Core SSL Research in Nanotechnology."

Note: The DOE has been granted a determination titled "Exceptional Circumstances Determination for Inventions Arising Under the Solid-State Lighting Core Technologies Program." Applicants should demonstrate knowledge of the determination and detail how they intend to comply with it. More information about the determination can be found at <http://www.netl.doe.gov/ssl/PDFs/ECD%20Announcement%20-%20040614.pdf>

1.2 OBJECTIVES

The specific objective of this Laboratory Call is to identify a lead center which will coordinate the solid-state lighting activities of the DOE Nanoscale Science Research Centers (NSRCs)². This will primarily consist of technical administration but may partly include administration of non-technical functions. It is not the intent to duplicate or replace activities already performed by the DOE, NETL, or others, but rather to supplement the current functions while creating the least disruption, producing more effective results, and maintaining consistency of purpose for the longer range mission.

Specifically, administrative roles to be excluded in the Laboratory Call consist of, but are not limited to, the following:

¹ Definition of 'Core Research' can be found at www.netl.doe.gov/ssl/definition.html

² The list of DOE Nanoscale Science Research Centers is available at: www.science.doe.gov/nano/

- Contractual project oversight including contract modification
- Technical project review including Budget Period Reviews, Peer Evaluations, and Programmatic Reviews
- Research selection and award
- Website development and maintenance (although the Recipient will be required to provide information to the DOE to be used for the SSL website)
- Workshop planning and facilitation
- Interaction with the Next Generation Lighting Industry Alliance
- Press/public relation activities
- Technology and market analyses

SECTION II: REQUIREMENTS AND ELIGIBILITY

2.0 ELIGIBLE APPLICANTS

All National Laboratories that are DOE NSRCs are encouraged to submit proposals in response to this Laboratory Call. For-profit, non-profit, state and local governments, Indian Tribes, and institutions of higher education are not eligible for this Laboratory Call either as a prime or sub-recipient. Teaming with other Nanoscale Science Research Centers is not allowed.

2.1 TYPE OF AWARD INSTRUMENT

Any project awarded as a result of the Laboratory Call will be processed through the NETL Financial Management Office as a Field Work Proposal, an Interoffice Work Order or any other allowable method deemed appropriate by the Government.

2.2 ESTIMATED FUNDING

Approximately \$100,000 to \$200,000 is expected to be available for the new award under this Laboratory Call.

2.3 EXPECTED NUMBER OF AWARDS

DOE anticipates making 1 award this fiscal year under this announcement. However, the Government reserves the right to fund, in whole or in part, any or none of the proposals submitted in response to this Laboratory Call.

2.4 PERIOD OF PERFORMANCE

DOE anticipates that the award duration will be up to 18 months. Potential applicants should be aware that funding is not available past this duration.

SECTION III: SUBMISSION INSTRUCTIONS

3.0 SUBMISSION INSTRUCTIONS

Proposals shall be submitted electronically to the following email address **no later than July 14, 2006 at 11:59 pm EST**:

Joel Chaddock, Project Manager
US Department of Energy
National Energy Technology Laboratory
jchadd@netl.doe.gov

The applicant is encouraged to request a return notification to verify receipt of proposal.

3.1 LATE APPLICATIONS, AMENDMENTS AND WITHDRAWALS OF PROPOSALS

A proposal or amendment of a proposal shall be considered timely if it is received on or before the closing date indicated above. Proposals or amendments of proposals may be withdrawn by written notice from an authorized representative to the above address via e-mail or in writing.

Proposals or amendments received after the closing date will not be considered.

SECTION IV: APPLICATION PREPARATION

4.0 PREPARATION

It is requested that the entire proposal not exceed ten (10) pages, single spaced, 1" margins (top, bottom, left, right), and when printed will fit on size 8 1/2" by 11" paper. The type must be legible and not smaller than 11 point. Evaluators will review only the number of pages specified. In order to produce a comprehensive application for this Laboratory Call, the offeror shall address, at a minimum, the areas listed in the Table of Contents, below. The offeror shall use the following Table of Contents:

| Section | Page |
|-----------------------------------|-------------|
| Field Work Proposal Cover Sheet | i |
| Table of Contents | ii |
| List of Acronyms | iii |
| Detailed Cost Analysis | iv |
| Technical Content | # |
| Appendices | # |
| Resumes of Key/Critical Personnel | A |

4.1 FIELD WORK PROPOSAL COVER SHEET

The form must be completed and signed by an official who is authorized to act for the proposing Nanoscale Science Research Centers and who can commit the proposer to comply with the terms and conditions of award, if one is issued.

4.2 DETAILED COST ANALYSIS

The applicant shall provide detailed cost information pertaining to their proposal. At a minimum, the cost analysis shall provide information regarding personnel costs, overheads, travel, equipment, and supplies. Include a supplemental schedule that identifies the labor hours, labor rates, and cost by labor classification for each budget year. Also indicate the basis of the labor classification, number of hours, and labor rates.

4.3 TECHNICAL CONTENT

Applicants should address the following information:

- Background, history, and activities of the proposing organization. This should include the vision of nano-scale SSL technologies for general illumination.
- A description of the organization's experience and ability to organize the technical functions of the NSRCs and plan to do so.
- Commitment of the organization to the activities of the NSRCs.
- Plans to comply with the Exceptional Circumstances Determination.
- Planned deliverables which include summary technical and financial reports to be provided to the DOE on a quarterly and annual basis. (The reports are not intended to compile activities completed under the "National Center for Solid-State Lighting Research and Development: Core SSL Research in Nanotechnology," but rather those activities performed under the "National Center for Solid-State Lighting Research and Development.")

SECTION V: OTHER INFORMATION

Information about the Solid State Lighting Program can be found at <http://www.netl.doe.gov/ssl/index.html>

Other documents that may be of interest are listed below:

Operational Plan for DOE SSL Program - http://www.netl.doe.gov/ssl/PDFs/OperPlan_06factsheet.pdf

Solid-State Lighting Portfolio Plan - <http://www.netl.doe.gov/ssl/research.html>

Definition of Core Technologies - <http://www.netl.doe.gov/ssl/definition.html>

Memorandum of Agreement with Alliance - http://www.netl.doe.gov/ssl/ssl_partnership.html

Determination of Exceptional Circumstances - <http://www.netl.doe.gov/ssl/PDFs/ECD%20Announcement%20-%20040614.pdf>

Section 912 of the Energy Policy Act 2005 - <http://www.netl.doe.gov/ssl/083105.html>